

TO ALL TO WHOM THESE; PRESENTS; SHAM, COME;

Nickerson American Plant Breeders, Inc.

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'Diamond'

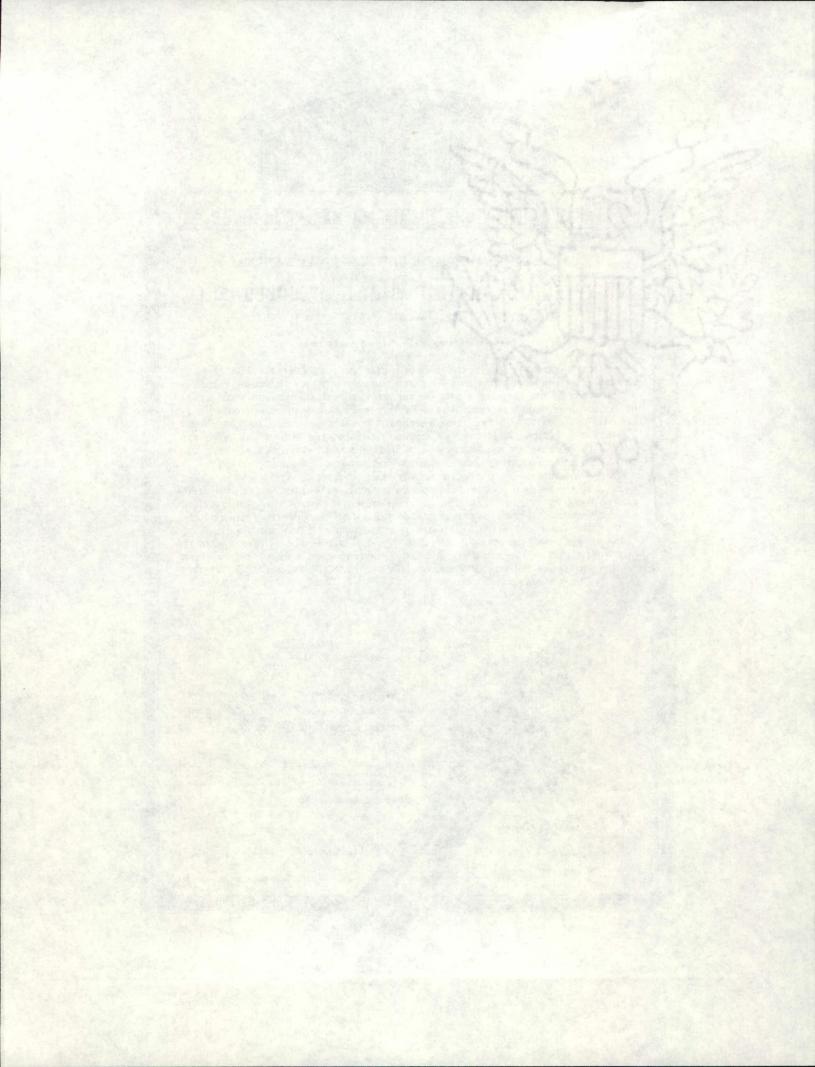
In Testimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 28th day of November in the year of our Lord one thousand nine hundred and eighty-six.

Commissioner & Wans

Plant Variety Protection Office Agricultural Marketing Service

Secretary of Agriculture

JAN ANAXA



				APPROVAL EXPIRES 4-30-85		
U.S. DEPARTA	Appli if a p	FORM APPROVED: OMB NO, 0581-0055 Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is				
APPLICATION FOR PLANT V	ARIETY PROTE ctions on reverse)	CTION CERTIFICATE	neid	ued (7 U.S.C. 2421). Information is confidential until certificate is issued S.C. 2426).		
1. NAME OF APPLICANT(S)	NAME OF APPLICANT(S) Z. TEMPORARY DESIGNATION					
Nickerson American Plant E		NAPB 27	D	Diamond		
4. ADDRESS (Street and No. or R.F.D. No., City 5201 Johnson Drive,	y, State, and Zip Code)	5. PHONE (Include area code		FOR OFFICIAL USE ONLY		
Shawnee Mission, KS 66205						
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)	FILING	DATE		
Medicago sativa				-August 12, 1985 TIME 11:00 X A.M. P.M.		
8. KIND NAME	9.	DATE OF DETERMINATION		AMOUNT FOR FILING		
Alfalfa	S. DATE OF BETERMINATION					
10. IF THE APPLICANT NAMED IS NOT A "PE partnership, association, etc.) Corporation	ration,	8/12/85 AMOUNT FOR CERTIFICATE \$ 200. 00 DATE October 24, 1986				
11. IF INCORPORATED, GIVE STATE OF INC Delaware				12. DATE OF INCORPORATION 7/14/85 CATION AND RECEIVE ALL PAPERS		
Dr. Bob Heiner, NAPB, P.O. 913-384-4940 Dr. Jim B. Moutray, AgriPr 14. CHECK APPROPRIATE BOX FOR EACH A a. Exhibit A, Origin and Breeding History Section 52 of the Plant Variety Protecti b. X Exhibit B, Novelty Statement 15. DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a) of the Plant Variety LIMITED AS TO NUMBER OF GENERATION Yes No 18. DID THE APPLICANT(S) FILE FOR PROTE 19. HAS THE VARIETY BEEN OFFERED FOR	of the Variety (See ion Act.) SEED OF THIS VARIETY Protection Act.) THIS VARIETY BE ONS?	Exhibit C, Object from Plant Varied c. X Exhibit C, Object from Plant Varied d. Exhibit D, Addit ETY BE SOLD BY VARIETY Ves (If "Yes," at BEYOND BREEDE X Foundation IETY IN THE U.S.?	-292-243 Inde area code Interpretation protection NAME ONLY Inswer items 1 I 16, WHICH R SEED?	ion of the Variety (Request form Office.)		
The applicant(s) declare(s) that a viable plenished upon request in accordance wie The undersigned applicant(s) is (are) the distinct, uniform, and stable as required Variety Protection Act. Applicant(s) is (are) informed that false	owner(s) of this sex in Section 41, and is	as may be applicable. ually reproduced novel plase s entitled to protection und	nt variety, a er the provi	nd believe(s) that the variety is sions of Section 42 of the Plant		
SIGNATURE OF APPLICANT RELATED	einer		D	8-5-85		
SIGNATURE OF APPLICANT				ATE 1-1/0/		

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$1,800 fee (\$200 filing fee and \$1,600 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Warehouse and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- If "Yes" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



EXHIBIT A

Origin and Breeding History of the Variety

'Diamond'

'Diamond' is a 113 clone intermediate nondormant synthetic variety selected primarily from advanced populations of 'Baron' (100 clones) which had undergone additional selection for resistance to anthracnose and blue alfalfa aphid. Five clones trace to 'Granada' and eight to Cage 1017 which consists of 'WL-514', 50%, 'Cuf- 101', 40% and 'WL-512', 10%. Final selections were made from space plant selection nurseries near Earlimart, California (73 clones) and Carlsbad, New Mexico (40 clones).

Breeder seed was produced under field isolation near Nampa, Idaho.

During seed multiplication, no variants beyond the limits defined under Exhibit C have been found, and multiplication procedures will ensure that seed being sold as 'Diamond' will not be shifted in characteristics beyond presently acceptable limits for alfalfa varieties.

It is also confirmed that 'Diamond' meets presently acceptable levels of uniformity for alfalfa varieties.

BEUZINED AUG 12 1985 U.S. DEPARTMENT AMS

PVPO

EXHIBIT B

Novelty Statement

8500189

'Diamond'

'Diamond' most closely resembles the variety 'Baron'. 'Diamond' differs from Baron by having a significantly higher level of resistance to anthracnose and Fusarium wilt.

AUG 12 1985

AUG 12 1985

AMS PVPO

EXHIBIT C (Alfalfa)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

		ALFALFA	(Medicago sativa sen	su Gunn et al.)				
NAME OF APPLICANT(S)	TEMPORARY D	ESIGNATION	VARIETY NAME	A 10				
Nickerson Ameri	NAPB 27	7	Diamond	E .	9, 1-			
DDRESS (Street and No., or R.F.D. No.,		FOR OFFICIAL USE ONLY						
5201 Johnson Dr	ive				PVPO NUMBER	6 9 D		
Shawnee Mission, KS 66205						8500189 _{MA} =		
LEASE READ ALL INSTRUCTION pplication variety. Data for quantite tative data. Comparative data should g., The Munsell Plant Tissue Color Co	ative plant characted d be determined fr	ers should be based of	on a minimum of 10	00 plants. Include le	eading zeros when ne	cessary (e.g., U o	9) for qua	
1. WINTERHARDINESS:								
3 = 1 5 = (7 = (9 = E	Very Non-Winterhard ntermediately Non-W Du Puits) Ranger) Extremely Winterhard	finterhardy (Mesilla) dy (Norseman)	4 = Semi-Winter					
. FALL DORMANCY:	FA	LL DORMANCY (D	ETERMINED FRO	M SPACED PLANT	rings)			
				REGROWTH SCORE		OR AVERAGE HEIGHT		
TESTING INSTITUTION AND LOCATION	DATE OF LAST CUT	DATE REGROWTH	APPLICATION		CHECK VARIETIE	s*	LSD .05	
AND LOCATION	LAST COT	SCORED	VARIETY	African	DuPuits	Saranac		
Univ. of Minnesota St. Paul, MN	9-9-83	10-12-83	4.38	3.21	5.14	6.37	0.61	
	Erect (CUF 101) Semidecumbent (Ver CUT (In Southwest, (CUF 101) (Norseman)	3 = Set (nal) 9 = De first cut after March 2 3 = Fa	mierect (Mesilla) cumbent (Norseman) 1): st (Saranac)	6", 8=2"-4" 5 = Intermedi	ate (Saranac)	7 = Slow (Vernal)		
TEST LOCAT		salia, Cal	ITOrnia					
4. AREAS OF ADAPTATION IN U.S. (V		ven adapted):		3	Other Areas of Adaptation	on		
1 = North Cer 5 = Moderatel 8 = Other (Sp.	y Winterhardy Intern	2 = East Central nountain	3 = S 6 = Winterhardy In	outheast atermountain	4 = Southwest 5 7 = Great Plains		3	
5. FLOWERING DATE (When 10% of p Days Earlier Than Same As	2		uring cut):	2 = Mesilla	3 = Saranac	4 = Vernal 5	= Norseman	

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT SEEDLING SURVIVAL	NUMBER OF SEEDLINGS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY	
Blue Alfalfa Aphid (Acyrthosiphon kondoi)	Application	2	29.55	over 250		LSD.05 % Res.	NAPB 1983 Ames, IA greenhou	
	CUF 101 (R)		25.10	11		8.31	Alles, IA greenhou	
	PA-1 (S)		2.20	п			portions from the line	
	SCORING SYSTEM:		scored on nt, 5=dead		1-5, w	here 1=ta	llest and considered	
Pea Aphid (Acyrthosiphon pisum)	Application	2	81.7	over 250		LSD.05	Dr. Merv Neilson	
	Kenze (R) PA-1		81.0	11		% res.	reitred U of Ariz	
	-Ranger (3) Caliv	erde	0.8	ш		10.3	Greenhouse	
	SCORING SYSTEM:	% seedli	ng surviva	al = % resis	stant			
Spotted Alfalfa Aphid (Therioaphis maculata)	Application	2	90.7	over 250		LSD.05	Dr. Merv Neilson	
Biotype, if known:	Kanza (R) MSTT		75.2	over 250		% res.	retired U. ov Ari 1983	
Biotype H	Rangerts Caliv	erde	0.2	over 250	-	10.2	greenhouse	
Chicken (Chiefe 15.4)	SCORING SYSTEM:	% seed1	ing surviv	/al = % res	istance			
INSECT	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY	
Potato Leafhopper Yellowing (Empoasca fabae)	Application	2	12.53	over 200	3,82		agrifro	
	MSA-CW3An3 (R)		71.01	over 200	1.99	0.43	agrifro	
	Ranger (S)		3,30	over200	4.58			
	SCORING SYSTEM:	Scores 0	182 Con	a scale of	Mere wed s	1 = noye	llowing and AHEN	
Other (Specify)	Application			V		0		
- I SERVICE STREET	(R)		N					
	(S)							
	SCORING SYSTEM:							
NEMATODE RESISTANCE:	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY	
Northern Root Knot (Meloidogyne hapla)	Application				9,	6.		
	Nev. Syn. XX (R)			-				
	Lahontan (S)							
	SCORING SYSTEM:			1				

OLUUH EU

Added 7-25-86, 4B

STEM NEMATODE RESISTANCE OF DIAMOND ALFALFA (6-83)*

VARIETY %	RESIS. PLANTS	ASI
DIAMOND BARON APPALACHEE (RES. CK.) RANGER (SUS. CK.)	13.2 6.4 69.6 0.0	4.08 4.33 1.78 4.31
LSD (0.05) C.V.%	20.2	NOT CALCULATED

*CONDUCTED BY AGRIPRO AT NAMPA, IDAHO



Exhibit E

Statement of ownership of the alfalfa variety

'Diamond'

Nickerson American Plant Breeders Incorporated is the applicant for protection in this case being;

- (A) The incorporated business (registered in Delaware) for and within which regular employees have bred and named this variety.
- (B) The proprietary owner and intending commercial user of this variety.



BILL OF SALE AND ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS that AGRIPRO BIOSCIENCES INC., a Delaware corporation (hereinafter referred to as "Seller"), pursuant to that certain Asset Purchase Agreement of even date herewith by and between Seller and AGR ACQUISITION CORPORATION, a Delaware corporation (hereinafter referred to as "Buyer") and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant, bargain, sell, assign, convey and deliver unto Buyer, all of Seller's right, title and interest in and to the plant varieties owned/registered by Seller and more particularly set forth on Exhibit A attached hereto for which PVP Certificates have been issued by or may be pending before the U. S. Department of Agriculture.

TO HAVE AND TO HOLD UNTO PURCHASER, its successors and assigns forever.

IN WITNESS WHEREOF, Seller has executed this Bill of Sale and Assignment as of the 30th day of June, 1994.

AGRIPRO BIOSCIENCES INC.

BY: W.a. Zama	
Title: Prosident	

STATE OF KANSAS, COUNTY OF JOHNSON

Before me, the undersigned, a Notary Public of the State and with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence) and who, upon oath, acknowledged himself to be the <u>URESIDENT</u> of Agripro Biosciences Inc., the within named bargainor, a corporation, and that he as such PRESIDENT, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as PRESIDENT

WITNESS my hand and Notarial Seal at office the day and year above written.

Notary Public

My Commission Expires:

ALMA M. WEAVER NOTARY PUBLIC STATE OF KANSAS

		1	

State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AGR ACQUISITION CORPORATION", CHANGING ITS NAME FROM "AGR ACQUISITION CORPORATION" TO "AGRIPRO SEEDS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 1994, AT 4:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.

Edu Frul

SECRETARY OF STATE

AUTHENTICATION:

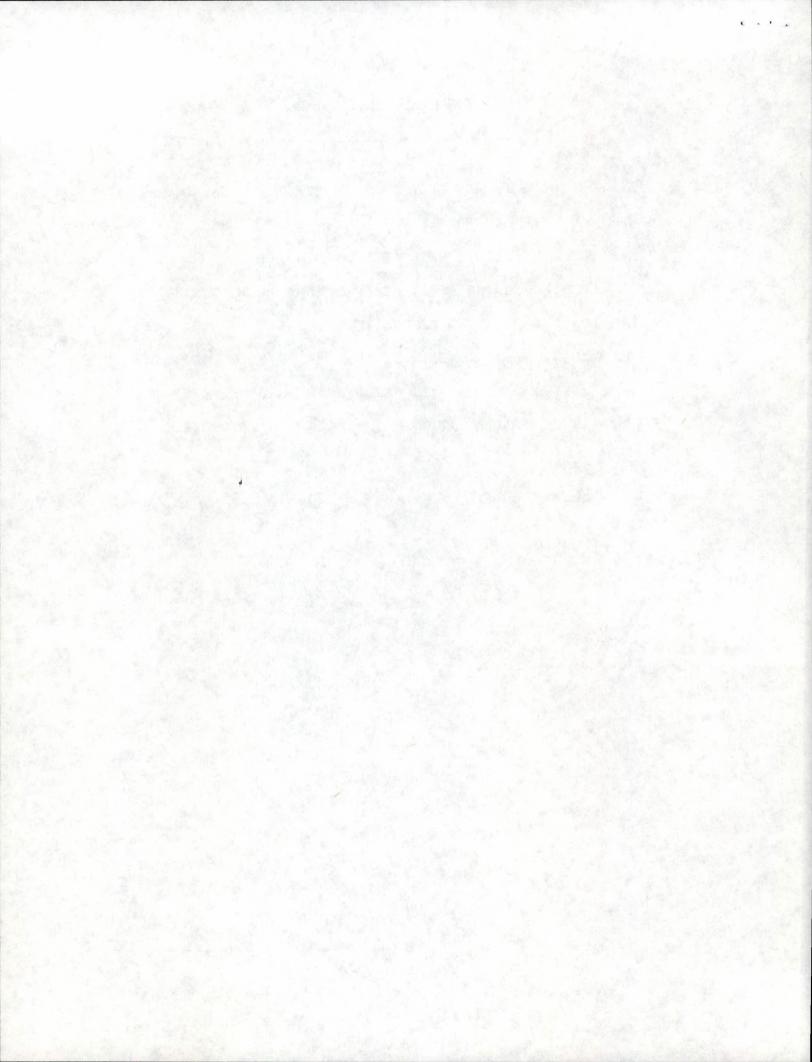
7169071

944121584

2394087 8100

DATE:

07-01-94



ABI SHAWNEE MSN

Ø 002/002

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
AGR ACQUISITION CORPORATION

AGR Acquisition Corporation, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: that the Board of Directors of said corporation, by the unanimous written consent of its members filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of said corporation:

RESOLVED, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "ARTICLE I" so that, as amended, said Article shall be and read as follows:

"ARTICLE I

Namo

The name of the corporation (hereinafter called the 'Corporation') is Agripro seeds, Inc."

SECOND: That in lieu of a meeting and vote of stockholders, the sole shareholder of the corporation has given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

FOURTH: That the capital of said corporation shall not be reduced under or by reason of said amendment.

IN WITNESS WHEREOF, said AGR Acquisition Corporation has caused this certificate to be signed by Gary T. Hancock, its President, and attested by Ann Steelman, its Secretary, this 30 day of June, 1994.

AGR ACQUISITION CORPORATION

BY:

Sary T. Hancock, President

ATTEST:

Ann Steelman, Secretary

